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### Akfix HT300-1 Pack

# Akfix HT300 High Temp Silicone Gasket Maker Instruction Manual

Brand: Akfix | Model: HT300

## INTRODUCTION

The Akfix HT300 High Temp Silicone Gasket Maker is a high-performance RTV (Room Temperature Vulcanizing) silicone sealant designed for sealing and bonding applications exposed to high temperatures. It provides a durable, flexible, and waterproof seal, making it suitable for various automotive and industrial uses.

## PRODUCT FEATURES

- **High Temperature Resistance:** Withstands temperatures up to 600°F (315°C) permanently after curing.
- **RTV Silicone Technology:** Ensures a strong, flexible, and waterproof seal.
- **Sensor Safe:** Formulated to be safe for use with automotive sensors.
- **Durable and Flexible:** Resists cracking, shrinking, and chemical deterioration, aging, and extreme weather conditions.
- **Easy Application:** Available in a caulk gun style tube for continuous bead application.



Image of Akfix HT300 High Temp Silicone Gasket Maker in its red and green tube packaging, indicating its high-temperature resistance and RTV silicone composition.

## APPLICATIONS

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Akfix HT300 is suitable for a wide range of sealing and bonding applications where parts must perform under high temperatures.

- Automotive components (e.g., valve covers, oil pans, water pumps, timing chain covers, differential covers).
- Sealing and bonding in stoves and chimneys.
- Gaskets in pumps and motors.
- Heating systems and ovens for sealing and tightness.
- Other industrial and household applications requiring high-temperature resistant sealing.



Image showing a hand applying the red Akfix HT300 silicone gasket maker along the edge of a metal component, demonstrating its use in creating a seal.

## WHAT'S IN THE BOX

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- 1 x Akfix HT300 High Temp Silicone Gasket Maker (10.1 fl.oz. / 300ml cartridge)

## SETUP AND SURFACE PREPARATION

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Proper surface preparation is critical for optimal adhesion and sealing performance.

1. **Clean Surfaces:** Ensure all surfaces to be sealed are clean, dry, and free from oil, grease, old gasket material, dirt, and other contaminants. Use a suitable solvent if necessary and allow to dry completely.
2. **Remove Old Gasket:** Carefully scrape off any existing gasket material or sealant.
3. **Abrade (Optional):** For best adhesion on smooth metal surfaces, light abrasion with fine-grit sandpaper can improve bonding. Clean thoroughly after abrading.
4. **Prepare Cartridge:** Cut the tip of the nozzle to the desired bead size, typically at a 45-degree angle. Puncture the inner seal of the cartridge.
5. **Load into Caulk Gun:** Insert the cartridge into a standard caulk gun.

Your browser does not support the video tag.

Official product video demonstrating the preparation of surfaces and application of Akfix HT300 High Temp Silicone Gasket Maker for automotive sealing.

## APPLICATION INSTRUCTIONS

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Apply the gasket maker evenly to one of the prepared surfaces.

1. **Apply Bead:** Apply a continuous, uniform bead of Akfix HT300 to one surface, preferably around the bolt holes.
2. **Assemble Parts:** Assemble the parts immediately while the sealant is still wet. Do not wait for a skin to form.
3. **Tighten Bolts:** Hand-tighten bolts until material begins to squeeze out.
4. **Final Tightening:** After 1 hour, re-tighten bolts to the recommended torque specifications.
5. **Excess Removal:** Wipe away excess sealant immediately with a dry cloth or solvent before it cures.

## CURING AND DRYING

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Akfix HT300 cures by reacting with moisture in the air.

- **Skin Formation:** A skin typically forms within 10-15 minutes, depending on humidity and temperature.
- **Full Cure:** The sealant will achieve full cure within 24 hours for a 3mm bead thickness. Thicker beads may require longer curing times.
- **Temperature Exposure:** The sealed assembly can be exposed to high temperatures only after full cure.

## MAINTENANCE AND STORAGE

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To ensure the longevity of the product and its effectiveness:

- **Storage:** Store the cartridge in a cool, dry place between +5°C and +25°C (41°F and 77°F).
- **Shelf Life:** Refer to the product packaging for specific shelf life information.

- **Re-use:** If the cartridge is not fully used, cap it tightly to prevent air exposure and curing of the remaining material.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor Adhesion	Unclean surfaces (oil, grease, old material); Insufficient curing time.	Thoroughly clean and dry surfaces before application. Allow adequate curing time before stressing the seal.
Seal Leakage	Uneven bead application; Insufficient material; Premature tightening; Improper surface preparation.	Apply a continuous, uniform bead. Ensure sufficient material is used. Follow tightening instructions. Re-clean and re-apply if necessary.
Slow Curing	Low humidity; Low temperature; Excessive bead thickness.	Ensure adequate ventilation and humidity. Allow longer curing times in cooler or drier conditions. Apply thinner beads if possible.

## TECHNICAL SPECIFICATIONS

- **Product Type:** RTV Silicone Gasket Maker
- **Color:** Red
- **Temperature Resistance (Cured):** Up to 600°F (315°C) permanent
- **Material:** 100% Silicone
- **Product Dimensions:** 1.96 x 1.96 x 9.05 inches
- **Item Weight:** 0.82 Pounds (13.12 ounces)
- **Curing Mechanism:** Moisture cure
- **Skin Formation Time:** 10-15 minutes (approx.)
- **Full Cure Time:** 24 hours for 3mm bead (approx.)

## SAFETY INFORMATION

Always read and follow the safety data sheet (SDS) and product label instructions before use.

- **Ventilation:** Use in a well-ventilated area.
- **Skin Contact:** Avoid prolonged or repeated skin contact. Wash hands thoroughly after handling.
- **Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Ingestion:** Do not ingest. If swallowed, seek medical attention immediately.
- **Keep Out of Reach:** Keep out of reach of children and pets.

## WARRANTY AND SUPPORT

Akfix products are manufactured to high-quality standards. For specific warranty details or technical support, please refer to the official Akfix website or contact their customer service.

[Visit Akfix Official Website](#)

